

Patent Abstracts of Japan

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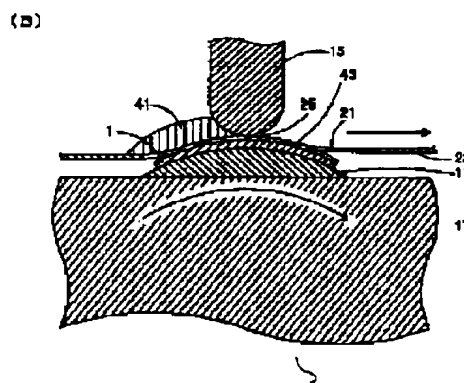
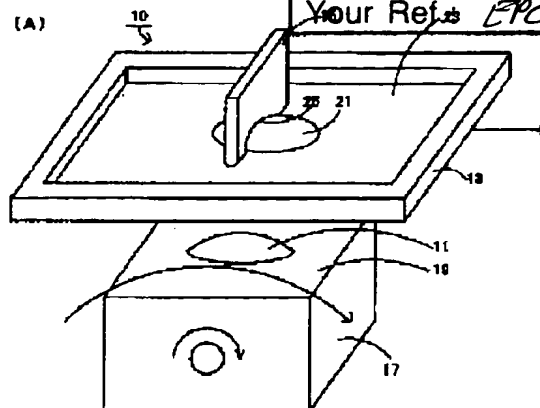
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TITLE : DYEING METHOD FOR SUBSTRATE  
HAVING CURVED SURFACE AND  
TRANSFER PRINTING MACHINE  
THEREFOR



ABSTRACT : PROBLEM TO BE SOLVED: To produce dyed plastic lenses that can improve the operation environment, permits easy control of the color concentration and gives stabilized color phase without unevenness.

SOLUTION: An oil-based ink in which subliming pigments are solved or dispersed are placed on the convex face of a plastic lens 1 and the plastic lens is arranged beneath the screen frame 13 on which the screen gauze 23 is extended with a loose tension as much as possible, as the convex face of the lens is kept on the upper side. A screen gauge 23 is intervened between the squeegee 15 that has the concave of an almost same curvature as that of the convex face of the plastic lens and the plastic lens 1. Then, as the holder base is rotated in the rectangular direction to the widthwise direction of the squeegee 15, the screen frame 13 is moved in the rectangular direction to the widthwise direction of the squeegee to transfer the coloring layer 43 to the convex face of the plastic lens 1 and to sublime the pigments in the coloring layer into the plastic lens 1 followed by the removal of this coloring layer 43.

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